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PATENT ABSTRACTS OF JAPAN

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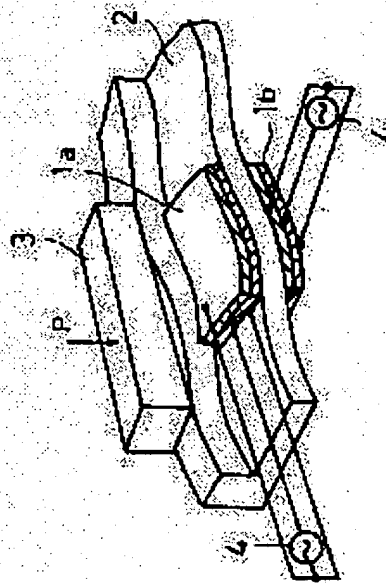
(22)Date of filing : **03.02.1984** (72)Inventor : **OKUNO TAKUO**
KATO YUZO

(54) PIEZOELECTRIC DRIVING DEVICE

(57)Abstract:

PURPOSE: To obtain a large vibration and an amplitude with a low voltage by laminating piezoelectric elements and applying an alternating voltage to the upper and lower surfaces and the bonding surface.

CONSTITUTION: Piezoelectric elements 1 are bonded from both side surfaces with a horizontally long rod-shaped vibrator 2, and a high frequency power source 4 is applied thereto to drive a dynamic unit 3. In this case the elements 1 are formed by laminating two so that one upper and lower surfaces are disposed in the reverse direction and bonding electrodes of the same polarity. Thus, the elements 1 are vibrated by an electric field by the power source 4 to vibrate the vibrator 2, but the vibrating amplitude produced thus becomes twice as compared with the case of the piezoelectric element of a single layer.



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